

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM  
**LISTING SERVICE**



**LISTING No.** 3225-1404:108

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**CATEGORY:** Fire Dampers

**LISTEE:** C & S Air Products, 2824 N. Sylvania Ave, Fort Worth, TX 76111  
Contact: Michael Beaver \*(817) 509-2300 \*Fax (817) 831-3110

**DESIGN:** Models FD-180, FSD-181 and FSD-182 single and multi blade type fire rated dampers. Unit is constructed of No. 20 Gage galvanized steel frame, No. 24 gage galvanized steel blades. Refer to listee's data sheet for detailed product description and operational considerations. Sizes of dampers are as follow:

<u>Model</u>	<u>Construction</u>	<u>Width, Inch</u>		<u>Height, Inch</u>	
		<u>Min.</u>	<u>Max.</u>	<u>Min.</u>	<u>Max.</u>
FSD	Single section	8	30	8	50
	Multiple section 8	90	8	100	
FD	Single section	8	30	8	50
	Multiple section 8	90	8	100	

**RATING:** 1-1/2 hour

**INSTALLATION:** In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

**MARKING:** Listee's name, model number, classification and UL label.

**APPROVAL:** Listed as 1-1/2 hour fire-rated dampers for use in heating, ventilating and air conditioning systems passing through fire resistive walls and partitions. Intended for use with approved damper operators. For vertical installation installations only.

**NOTE:** For leakage classification, refer to CSFM Listing No. 3230.

**XLF:** 3225-0368:115

\*Rev. 06-21-2006



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **JUNE 5, 2008**

*Listing Expires **June 30, 2009***

Authorized By: **BEN HO, Chief**  
*Fire Engineering Division*